

Claims

1. What I claim as my invention is a slow-release insect repellent process for repelling clothes moths and other insects from all types of closed storage units, comprising an insect repellent composition contacting a substrate; wherein the insect repellent composition comprises (a) a repellent compound chosen from the group consisting of essential oils accepted as food additives and/or active ingredients of said essential oils, (b) slow-release agent or agents, and (c), a solvent; wherein the repellent compound used, while pleasantly fragranced, is not toxic to humans, animals and the environment.
2. The slow-release insect repellent composition of claim 1 wherein the repellent compound is consisting of a blend of essential oils and/or their active ingredients chosen from a group consisting of geranium oil, rosemary oil, citronella oil, and thyme oil.
3. The composition of claim 2 further comprising cinnamon oil, cedar oil, peppermint oil, mint oil, clove oil, and wintergreen oil.
4. The composition of claim 3 wherein present in the insect repellent compound is present in the insect repellent composition before application to the substrate in an amount in the range of from 0.1 to about 60 % by weight.
5. The composition of claim 3 wherein present in the insect repellent compound is present in the insect repellent composition after application to the substrate and drying in the amount of from 0.1 to about 45 % by weight

6. The composition of claim 1 further comprising 2-phenethyl propionate, geraniol, eugenol, and vanillin.
7. The composition of claim 6 further comprising citric acid and acetic acid.
8. The composition of claim 7 further wherein the slow-release agent comprises a slow evaporating vegetable oil.
9. The slow-release insect repellent composition of claim 1 wherein the substrate is chosen from a group consisting of paper, paperboard, peanut shells, polyethylene pellets, rice hulls, soybeans hulls, and soybean protein.
10. The slow-release insect repellent composition of claim 9 wherein the substrate comprises rice hulls.
11. The slow-release insect repellent composition of claim 10 wherein the substrate contacts the insect repellent compound for a pre-determined time, after which is dried at a temperature ranging from 17° C to about 37° C.
12. The slow-release insect repellent composition of claim 11 is placed in a sachet.
13. A method for repelling clothes moths and other insects comprising placing the slow-release insect repellent composition in closets, garment bags, drawers, and/or in any other closed storage unit.